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INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001448

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K1/22 C07K-1/14 G01N33/68 G01N33/53

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC 7 C07K1/22 C07K-1/14 G01N33/68 G01N33/53

ECLA G01N33/68A10 G01N33/68A

CPC 530/1.14 530/3.2 530/3.12-530/3.28 150/9-150/14 167/37-167/45 195/1.1 195/33-195/39.1 167/139-167/140

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Canadian Patent Database, Delphion, Derwent(Delphion), EspaceNet, PubMed

affinity chromatography, affinity matrix, ligand, complex, protein, peptide, polypeptide, affinity tag

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Bauer and Kuster: "Affinity purification-mass spectrometry: Powerful tools for the characterization of protein complexes." Eur. J. Biochem. vol. 270, pages 570-578 February, 2003 the whole document	1-31, 34-44, 47-51
Y	Rigaut et al.: "A generic protein purification method for protein complex characterisation and proteome exploration." Nature Biotech. vol. 17, October, 1999. pages 1030-1032, the whole document	1-31, 34-44, 47-51
Y	Formosa et al.: "Using protein affinity chromatography to probe structure of protein machines." Methods Enzymol. vol. 208, 1991 pages 24-45 the whole document	1-31, 34-44, 47-51

Further documents are listed in the continuation of Box C.

X Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search

15 November 2004 (15-11-2004)

Date of mailing of the international-type search report

17 December 2004 (17-12-2004)

Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	Krogan et al.: "High-definition macromolecular composition of yeast RNA-processing complexes." Mol. Cell. vol. 13, January, 2004 pages 225-239 the whole document	1-31, 34-44, 47-51
Y	WO 02 056025 Awrey and Greenblatt 18 July 2002 page 29, lines 3-6 claims, examples	1-31, 34-44, 47-51
A	Phizicky et al. Protein-protein interactions: Methods for detection and analysis. Microbiol. Reviews vol. 59, March, 1995 pages 94-123 the whole document	1-31, 34-44, 47-51

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☐ Claims Nos. :
because they relate to subject matter not required to be searched by this Authority; namely:
2. ☒ Claims Nos.: 32, 33, 45, 46, 52 and 53
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

Claims 32, 33, 45, 46, 52 and 53 are so unclear, and do not clearly define the technical feature of the invention under Rule 6.3(a), such that no meaningful international search can be carried out for the claimed methods.
3. ☐ Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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International application No.
PCT/CA2004/001448

Patent Document
Cited in Search Report

Publication
Date

Patent Family
Member(s)

Publication
Date

WO 02056025

18-07-2002

CA 2430954 A1
US 6797523 B2
WO 02056025 A2

18-07-2002
28-09-2004
18-07-2002